STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT	
(highlight changes)	

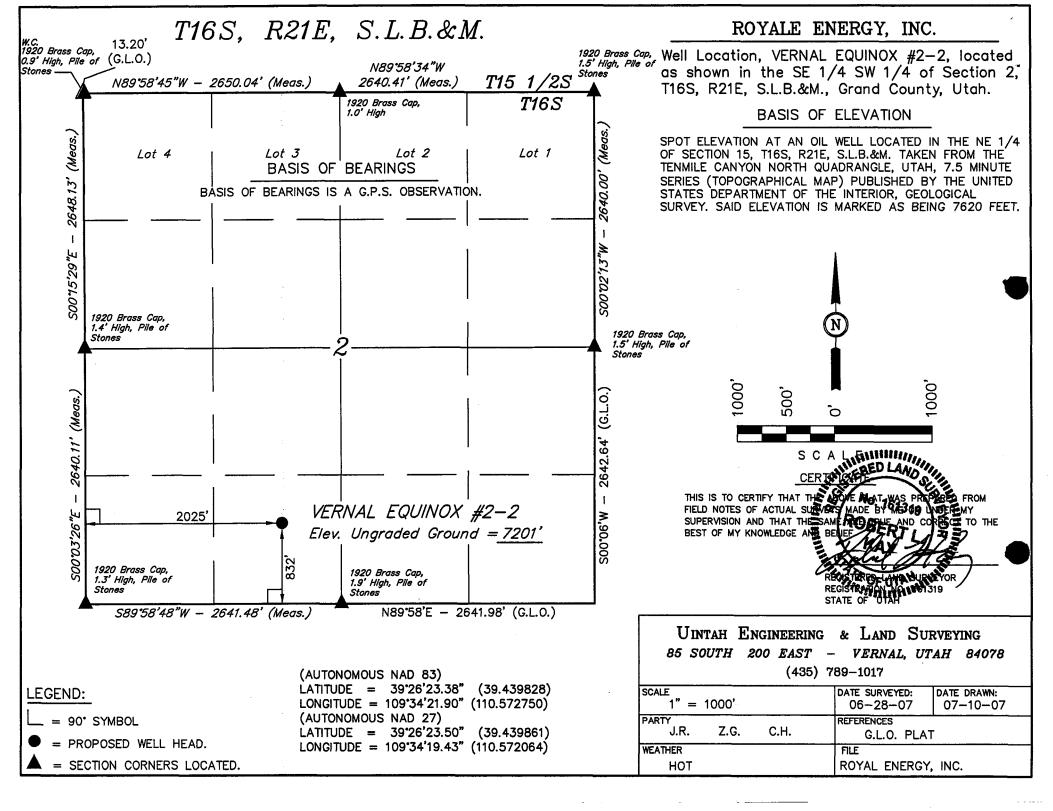
		APPLICAT	ION FOR P	ERMIT TO	DRILL		5. MINERAL LEASE NO: ML-46110	6. SURFACE: State
1A. TYPE OF WO	RK:	7. IF INDIAN, ALLOTTEE OF	TRIBE NAME:					
B. TYPE OF WE		☐ GAS 🗹 (	OTHER	SIN	GLE ZONE MULTIPLE Z	ZONE 🗾	8. UNIT or CA AGREEMENT Moon Canyon	NAME:
2. NAME OF OPE						· · · · · · · · · · · · · · · · · · ·	9. WELL NAME and NUMBE	
Royale Ene		·	····	<del></del>		··-	Vernal Equinox 2	
		Dr CITY San Di	iego <sub>state</sub>	CA <sub>ZIP</sub> 92	PHONE NUMBER: (619) 881-28	00	10. FIELD AND POOL, OR V	
4. LOCATION OF		(GES)	622892	Y:	39.43980   0 9.57   977		11. QTR/QTR, SECTION, TO MERIDIAN:	
AT SURFACE:	832' FSL	. & 2025' FWL	1121.1 21	1011	1.999001		1	S 21E
AT PROPOSED	PRODUCING:	zone Same	430 639	184 - 1	09.57/977		02000 2 10	O ZIL
14. DISTANCE IN	MILES AND D	RECTION FROM NEAR	REST TOWN OR POST	OFFICE:			12. COUNTY:	13. STATE:
65 Northy	vest of Fr	uita, CO					Grand	UTAH
15. DISTANCE TO	NEAREST PR	OPERTY OR LEASE LI	NE (FEET)	16. NUMBER O	ACRES IN LEASE:	17. N	NUMBER OF ACRES ASSIGNED	O TO THIS WELL:
832 ft					640	8.0		40
	NEAREST WI ON THIS LEA	ELL (DRILLING, COMPL ASE (FEET)	ETED, OR	19. PROPOSED	•	i	BOND DESCRIPTION:	
NA NA					10,70		tatewide Bond #29	1395
		HER DF, RT, GR, ETC.	):	1	ATE DATE WORK WILL START:	i	STIMATED DURATION:	
7201 ft. G	R			9/1/2007		30	0 days	
24.			PROPOSE	D CASING A	ND CEMENTING PROGRA	M		
SIZE OF HOLE	CASING SIZ	ZE, GRADE, AND WEIG	HT PER FOOT S	ETTING DEPTH	CEMENT TYPE	, QUANTITY	, YIELD, AND SLURRY WEIGH	Т
12-1/4"	9-5/8	K-55	36#	2,000	Class "G"	12	200 sx 1.1	7 15.8 ppg
8-3/4"	7	N-80	23#	6,600	50/50 POZ	(	390 sx 1.2	6 14.2 ppg
6-1/4"	4-1/2	P-110	11.60#	10,700	50/50 POZ	,	533 sx 1.2	6 14.2 ppg
25.			<u></u>	ATTA	CHMENTS	· · · · · · · · · · · · · · · · · · ·		
VERIFY THE FOL	LOWING ARE	ATTACHED IN ACCORD	DANCE WITH THE UT	AH OIL AND GAS C	ONSERVATION GENERAL RULES:		OONE	DENTIAL
WELL PL	AT OR MAP PR	REPARED BY LICENSEI	O SURVEYOR OR ENG	SINEER	COMPLETE DRILLING PI	LAN	LUNFI	DEMINE
✓ EVIDENC	E OF DIVISION	NOF WATER RIGHTS A	APPROVAL FOR USE (	OF WATER	FORM 5, IF OPERATOR	IS PERSON	OR COMPANY OTHER THAN T	THE LEASE OWNER
NAME (PLEASE)	PRINT) Eric	Noblitt			ππε Agent			
SIGNATURE_	fin	Mobile	$\mathcal{O}_{}$		DATE 7/20/2007			
(This space for Sta	te use only)			A	pproved by the			
		112.610	21-1-0	ĵ	Itah Division of			

Oil, Gasand Mining

(11/2001)

**RECEIVED** JUL 2 7 2007

DIV. OF OIL, GAS & MINING



# ROYALE ENERGY, INC.

Lease # ML-46110 Moon Canyon Unit Vernal Equinox 2-2

SE/4SW/4; Section 2, Township 16 South, Range 21 East, SLM Grand County, Utah

# Surface Use & Operations Plan

# **Ownership**

Surface & Minerals:

State of Utah School Trust Lands 675 E. 500 S. Salt Lake City, UT 84102 (801) 538-5100

- 1. EXISTING ROADS Refer to Exhibit Topo Maps "A" and "B".
  - A. The wellsite has been surveyed to memorialize the proposed well pad (see Location Layout Plat)
  - B. To reach the proposed location from the UT/CO state line proceed East on Interstate 70 approximately 4.6 miles to the Westwater exit; proceed north .3 mile, turn right and go East 2.2 miles to Hay Canyon & East Canyon road (At National Fuel sign) turn left, proceed Northwest 12.6 miles to Hay Canyon road, turn left and travel up Hay Canyon 13.8 miles to Divide road. Turn left. Heading west, travel 9.3 miles to Moon Ridge sign. Turn right. Proceed 9.9 miles to proposed new access road. Travel Northeasterly 1.2 miles on proposed access road. Turn Right. Travel .5 miles to Vernal Equinox 2-2 location.
  - C. Access roads refer to Exhibit Topo Maps "A" and "B".
  - D. Access roads within a one (1) mile radius, none refer to Exhibit Topo Maps "A" and "B".
  - E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operation and said maintenance will continue until final abandonment and reclamation of said well location.
- 2. PROPOSED ACCESS ROAD Refer to Map Exhibits "A" &"B"

Access to the location will be on Grand County maintained roads until you turn Northeast (right)off the County road in the SE ¼, Section 10, T 16S-21E. The proposed new access road will be 1.7 mile in length crossing BLM and State lands to Vernal Equinox 2-2 location.

- A. Width This new access road will be built with a twenty (20) foot running surface on a thirty (30) foot right-of-way.
- B. Construction Standard Any road improvements will be conducted in accordance and with consultation with the appropriate governing authority.
- C. Maximum grade The maximum grade is under 8%.
- D. Turnouts Several turnouts exist on the existing road any new turnouts will be consultation of the appropriate governing authority.
- E. Drainage design The existing road shall be maintained to provide proper drainage along the road.
- F. Culverts and low water crossings Culverts (if needed) sizes will be determined by anticipated runoff.
- G. Surface material It is anticipated that no additional surface material will be required for drilling and production operations. Should spot graveling be required during drilling operations, gravel would be obtained from the nearest commercial site.
- H. Gates, cattleguards or fence cuts: No Fence cuts or cattleguards will be required along the proposed existing/new route. All gates will be maintained during operations.
- I. Road maintenance During both the drilling and production phase of operations, the road surface will be kept in a safe and useable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road will be kept free and clear of trash during all operations.

# 3. LOCATION OF EXISTING WELL WITHIN A ONE-MILE RADIUS

A.	Water wells	none
B.	Abandoned wells	none
C.	Temporarily abandoned wells	none
D.	Disposal wells	none
E.	Proposed wells	none
F.	Shut-in wells	none
G.	Producing	none

# 4. LOCATION OF PROPOSED FACILITIES

- A. All production facilities will be located on the disturbed portion of the well pad and at a minimum from of twenty-five (25) feet from the toe of the back slope or top of the fill slope.
- B. Production facilities will be located on the drillsite location. A diagram showing the proposed production facility layout will be submitted to the Division via Sundry Notice (Form # 9) will be submitted upon completion and installation of facilities.
- C. An existing pipeline for gas gathering is in place in Sec. 10-T16S-R21E. If the subject well is commercial a 3" welded surface line will be laid adjacent to the new access road from the Drillsite to SE ¼ of section 10.
- D. All permanent (in place for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, non-reflective color to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required by OSHA may be excluded. Colors will be Juniper Black, unless otherwise advised by the governing authority.
- E. If a gas meter run is constructed, it will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream until it leaves the pad. The meter run will be housed. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of the Division and the American Gas Association (AGA) Report No. 3.
- F. If a tank battery is constructed on the lease, it will be surrounded by a berm of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurements shall conform to provisions of the Division.
- G. Production facilities on location may include a lined or unlined water pit as specified in Division rule R649-3-16. Any pit will be fenced with barbwire held in place by metal side post and wooden corner "H" braces in order to protect livestock and wildlife.
- H. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road, drill pad and any additional area specified in the approved Application for Permit to Drill (APD).
- I. Reclamation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as provided for in Division rule R649-3-34.

# 5. LOCATION AND TYPE OF WATER SUPPLY

- A. Water supply for the subject well shall come from a private source in Sec. 6, T16S-R23, owned by Bert Delambert. Water Change Application #t30440 authorizes such use.
- B. No water well will be drilled.

#### 6. SOURCE OF CONSTRUCTION MATERIALS

- A. It is not anticipated that any construction materials (gravel) will be required during construction or operations. If required, a private contractor (or surface owner) having a previously approved source within the general area will be used.
- B. No construction material will be taken from State lands.

# 7. METHODS OF HANDLING WASTE MATERIALS

- A. Cuttings The drill cuttings will be deposited in the reserve pit.
- B. Drilling fluids All fluids including chemicals will be contained in the reserve pit. The reserve pit will be designed to prevent the collection of surface runoff and will constructed with a minimum of one-half (1/2) total depth below the original ground level and at the lowest point within the pit. Pursuant to Division rule R649-3-16 & 34, prior to back-filling the reserve pit liquids will be disposed in an approved facility and the contents will be allowed to dry. The disturbed portion of the pad will be reclaimed. A 12-mil synthetic pit liner is proposed.
- C. Produced fluids Liquid hydrocarbons that may be produced during completion operations will be placed in test tanks on the location. Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production.
  - Any spills of oil, gas, salt water or any other potentially hazardous substances will be cleaned up and immediately removed to an approved disposal site in accordance with Division rule R649-3-32.
- D. Sewage Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, these toilets will be removed and the contents thereof disposed of in an approved sewage disposal facility.
- E. Garbage and other waste material All garbage and non-flammable waste materials will be contained in a dumpster or trash cage. Upon completion of operations, or as needed, the accumulated trash will be hauled off-site to an approved sanitary landfill. No trash will be placed in the reserve pit during any operations pertaining to this well.

- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No potentially adverse materials or substances will be left on location.
- G. Any open pits will be fenced during the drilling operation and said fencing will be maintained until such time as the pits have been back-filled.

## 8. ANCILLARY FACILITIES

None anticipated.

## 9. WELLSITE LAYOUT

- A. Attached hereto is a diagram showing the proposed location layout. No permanent living facilities are planned. There will be approximately four (4) trailers on location during drilling operations: one each for the wellsite supervisor, geologist/mudloggers, drilling fluids engineer and toolpusher.
- B. Topsoil will be stock piled on the West and North of the drillpad. Brush and trees will also be stock piled on the East side and Northeast corner of pad and will be used in the site reclamation process. Erosion ditches will be created along the side of the drill pad to control runoff from the drill pad. (see location layout plat)
- C. A diagram showing the proposed production facility layout will be submitted to the Division via *Sundry Notice* (form # 9) for approval (see # 4B).
- D. Prior to commencement of drilling operations, the reserve pit will be fenced on three (3) sides with four strand barbed wire held in place by metal side post and wooden corner "H" braces in order to protect livestock and wildlife.
  - 1. Corner post shall be braced in such a manner to keep the fence tight at all times.
  - 2. Standard steel, wood or pipe post shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.
  - 3. All wire shall be stretched, by using a stretching devise, before it is attached to the corner posts.
  - 4. The fourth (4<sup>th</sup>) side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is back-filled.
- E. Any Hydrocarbons on the pit will be removed immediately.
- F. Flare pit will be a minimum of 100 feet from the wellhead and 30 feet from the reserve pit when applicable. The flare pit will be on laydown side of pad.

# 10. PLANS FOR RECLAMATION OF THE SURFACE

# Producing

- A. Any rat and mouse holes will be back-filled and compacted from to top immediately upon release of the completion rig from the location. The location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
- B. Any oil located on the pits will be removed immediately in accordance with Division rule R649-3-16 & 34.
- C. Back-filling, leveling and re-contouring are planned as soon as possible after cessation of drilling and completion operations. Waste and spoil materials will be disposed of immediately upon cessation of drilling and completion activities.

Fluids from the reserve pit shall be removed. The liner shall be torn and perorated before back-filling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within six (6) months from the date of well completion. Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc., shall be removed.

Surface owner will be contacted for required seed mixture pursuant to Division rule R649-3-34.

## Dry Hole/Abandoned Location

1. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the DOGM/SITLA will attach the appropriate surface rehabilitation conditions of approval.

## 11. OTHER INFORMATION

- A. Proximity of Water, Occupied Dwellings, Archaeologist, Historical or Cultural Sites:
  - 1. There are no known, occupied dwellings within one (1) mile of the location.
  - 2. There are no known water wells within one (1) mile of location.
  - 3. Royale Energy, Inc. will be responsible for informing all persons in the area who are associated with the project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or for

collecting artifacts. If historic or archaeological materials are uncovered, Royale will suspend all operations that might further disturb such materials and immediately contact the State Historical Preservation Office"SHIPO".

- 4. A Class III cultural resource inventory of the proposed Vernal Equinox 2-2 location and its related 1.7 mile-long access road has been completed. The report will be filed with SHIPO and SITLA-State Office.
- B. The operator will, control noxious weeds along right-of-way for roads, pipelines, wellsites or other applicable facilities.

## 12. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Royale Energy, Inc.

7676 Hazard Center Drive, Suite 1500

San Diego CA 92108 Phone: (619) 881-2870 Fax (619) 881-2876

Drilling@royl.com

Attention: Glenn Donaldson

Prepared by:

Date: July 20, 2007

Eric Noblitt, Agent 2275 Logos CT. #B-1

Grand Junction, CO. 81505 Phone: (970) 245-3951

Fax: (970)245-3951 enoblitt@bresnan.net

# ROYALE ENERGY, INC.

Lease # ML-46110 Moon Canyon Unit Vernal Equinox 2-2

SE/4SW/4; Section 2, Township 16 South, Range 21 East, SLM Grand County, Utah

July 20, 2007

# **DRILLING PLAN**

# General

NOTE: This well is to be drilled as a tight hole. Unauthorized personnel are not to be allowed on rig floor. All information is to be kept confidential.

Surface Location: 832'FSL and 2025' FWL

SESW; Sec.2-T16S-R21E, SLM

Grand County, Utah

Bottomhole Location: Same

Proposed Total Depth: 10,700'

Elevation: 7201' Ground Level (Ungraded)

Drilling Contractor: Yet to be determined

# **Drilling Procedure**

# **Location**

1) Build location, dig and line reserve pit as per pad layout specifications. Pit will be lined with a 12mil liner.

# Surface Hole

- 1) Move in and rig up air drilling rig.
- 2) Drill a 12-2/4" surface hole to 2000' with air. Notify State of Utah DOGM as to cementing of surface casing.
- 3) Circulate and condition as required. Trip out of hole.
- 4) Run and cement 2000' of 9-5/8", 36#, K-55, ST&C, 8rd casing and as per cement recommendation. If cement returns to surface are not obtained, run 1" pipe in casing/hole annulus and top out w/ neat cement. Wait 8 hrs on cement.
- 5) Weld on 11" X 5,000 PSI flanged casing head.
- 6) Rig down and move off surface hole drilling rig.

# Intermediate Hole

- 1) MIRU rotary rig. Notify State of Utah DOGM as to BOP/CSG pressure test. Nipple up and pressure test BOPE and 9-5/8" casing to 70% internal yield of 9-5/8" csg.
- 2) Mud up. Trip in hole w/8-3/4" bit. Drill out float collar and guide shoe
- 3) Drill 8-3/4" intermediate hole from base of surface casing to 6,600' (or 200'+/- into Mancos)
- 4) Condition hole as per mud program. Run openhole logs as per logging program.
- 5) Trip in hole w/ bit and drill string. Condition hole for running pipe.
- 6) Run and cement 7" 23# N-80 production casing according to cement recommendation.
- 7) Pressure test 7" casing string to 1,500 psi for thirty (30) minutes.
- 8) Drill out 7" intermediate casing with 6-1/4" bit.
- 9) Well will be drilled to a depth of 10,700'
- 10) At T.D., condition hole for running openhole logs as per mud program.
- 11) Run openhole logs as per logging program.

# Decision Point: Producible/Dryhole

# **Producible**

- 1) Trip in hole w/ bit and drill string. Condition hole for running pipe. Trip out of hole laying down drill- pipe and collars. Notify DOGM as to running and cementing of longstring.
- 2) Run and cement 4-1/2" production casing according to cement recommendation.

# **Dryhole**

- 1) Notify State of Utah DOGM and receive plugging orders. Trip in hole open ended and plug well as per DOGM orders.
- 2) Release drilling rig. Reclaim location.

# **Estimated Tops of Geological Markers**

(From Ungraded GL)

Formation	Тор	
Green River	Surface	
Main Mancos	6,400	
Dakota Silt	10,000	
Dakota Sandstone	10,200	
Cedar Mountain	10,300	
Morrison	10,400	
TD	10,700	

# Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations (From Ungraded GL)

Formation	Тор	Possible Formation Content
Dakota Sandstone	10,200°	gas
Cedar Mountain	10,300°	gas
Morrison	10,400°	gas

# **Pressure Control Equipment**

1) Type: 11" X 5,000 psi WP, double-gate BOP and 11" X 5,000 psi WP annular BOP with hydraulic closing unit.

The blowout preventer will be equipped as follows:

- 1) One set of blind rams
- 2) One set of pipe rams
- 3) Drilling spool with two side outlet ( choke side: 3" minimum and kill side 2" minimum )
- 4) Kill line: Two-inch minimum
- 5) Two kill line valves, one of which will be a check valve (2" minimum)
- 6) Choke line: Three-inch minimum.
- 7) Two choke line valves: Three-inch minimum.
- 8) One manually operated choke: Three-inch minimum.
- 9) Pressure gauge on choke manifold.
- 10) Upper kelly cock with handle readily available.
- 11) Full opening internal blowout preventer or drill pipe safety valve able to fit all connections.
- 12) Fill-up line to be located above uppermost preventer.
- 2) PRESSURE RATING: 5,000 PSI

# 3) TESTING PROCEDURE

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the approved BOP stack. (if isolated from the surface casing by means of a test plug) or 70% of the internal yield strength of the surface casing (if not isolated from the surface casing by means of a test plug). Pressure will be maintained for a period of at least ten minutes or until requirements of the test are met, whichever is longer.

Page 4 Vernal Equinox 2-2 Drilling Prognosis

At a minimum, this pressure test will be performed:

- 1) When the BOP is initially installed
- 2) Whenever any seal subject to test is broken.
- 3) Following related repairs.
- 4) At thirty day intervals.

In addition to the above, the pipe rams will be activated daily, and the blind rams will be activated on each trip (but not more frequently than once each day). All BOP tests and drills will be recorded in the IADC Driller's Log (tour sheet)

# 5) CHOKE MANIFOLD EQUIPMENT:

All choke lines will be straight lines, unless turns use tee-blocks, or are targeted with running tees.

These lines will be anchored to prevent whip and vibration.

# 6) ACCUMULATOR:

The accumulator will have sufficient capacity to close all rams (plus the annular preventer, if applicable) and maintain a minimum of 200 psi above the precharge pressure without the use of the closing-unit pumps. The fluid reservoir capacity will be double the accumulator capacity and the fluid level will be maintain at the manufacturer's recommendation. The BOP system will have two independent power sources to close preventers. Nitrogen bottles (three minimum) will be considered one of these sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits of manufacturer's specifications.

# 7) MISCELLANEAUS INFORMATION:

The blowout preventer and related pressure-control equipment will be installed, tested, and maintained in compliance with the specifications in and requirements of DOGM's Drilling and Operating Practices #R649-3-7. The choke manifold and BOP extension rods will be located outside the rig sub-structure.

The hydraulic BOP closing unit will be located at least twenty-five feet from the wellhead, but will be readily accessible to the driller. Exact location and configuration of the hydraulic BOP closing unit will depend upon the particular drilling rig contracted to drill this hole.

# **Casing and Cementing Programs**

#### PROPOSED CASING DESIGN

Size	Interval	Length	Description
9-5/8"	0'-2,000'	2,000°	36#, K-55, STC
7"	0'-6,600'	6,600'	23#, N-80, LTC
4-1/2"	0'- 10,700'	10,700'	11.60# P-110, LTC

A regular guide shoe and insert float will be run on the bottom and top of the first joint on casing. The guide shoe and float collar will be made up with A.P.I. thread locking compound. On 4-1/2" casing, a stop ring and centralizer will be run in the middle of the shoe joint. Centralizers will be ran 1 joint above float and across all potential pay zones.

NOTE: Casing strings will be pressure tested to 0.22 psi/ft of casing string depth, or 1,500 psi, whichever is greater ( not to exceed 70 % of the internal yield strength of the casing ) after cementing and prior to drilling out from under the casing shoe.

# PROPOSED CEMENTING PROGRAM

Casing / Hole Size	Cement Slurry	SX	PPG	Yield
9-5/8" / 12-2/4"	Tail: Class "G" w/ 2% CaCl2 & 0.25 PPS Flocele ( 100% excess )	1200	15.8	1.17

Casing Equipment: 1 – Regular Guide Shoe 1 – Insert float collar

NOTE: Precede cement w/ 50 bbls of fresh water. Have 100 sx "neat" cement on location and 1" line pipe to pump a cement top job if cement is not circulated to surface and/or cement falls back. All waiting-on—cement times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

Casing / Hole Size	Cement Slurry	SX	PPG	Yield
7" / 8-3/4"	50/50 Pozmix w/.25 PPS Flocele (30% excess)	890	14.2	1.26

This section of hole may be two staged cemented if loss circulation is encountered.

Page 6 Vernal Equinox 2-2 **Drilling Prognosis** 

Casing / Hole Size

Cement Slurry

SXPPG Yield

4-1/2" / 6-1/4"

50/50 poz cement w/ 0.25 PPS

14.2 534

Flocele (30% excess)

TOC @ 6,500'

NOTE: Actual cement volumes will be calculated from caliper log.

Casing Equipment: 1 – Regular guide shoe

1 – Differential-fill float collar

10 – Centralizers (Casing will be centralized on shoe it and across all

potential pay zones)

NOTE: Precede cement with 50 bbls of fresh water. Run compatibility test on proposed cement with actual make-up water. Cement design and volumes may be altered depending on results of caliper log and presence of lost circulation zones.

# **Drilling Fluids Program**

SURFACE HOLE: 0' - 2000'

HOLE SIZE: 12-1/4"

9/5/8" CASING

1.26

Surface pipe will be pre-set with air rig.

INTERMEDIATE HOLE: 2000' - 6.600'

**HOLE SIZE: 8-3/4"** 

7" CASING

Drill out surface casing cement with water discarding contaminated fluid into reserve pit. Mud up with low-solids, 6 PPB DAPP mud system. Keep trip speeds down to reduce surge/swab pressure. Keep hole full at all times. Monitor pit levels to detect loss circulation and gas kicks. Sweep hole as dictated by hole conditions and prior to running production casing. Keep drill string moving at all times.

Recommend Fluid Properties: Weight

8.8 - 9.2PPG

Viscosity 36-40 SEC / QT

Water Loss 6-8 CCS

PRODUCTION HOLE: 6,600' – 10,700'

HOLE SIZE: 6-1/4"

4-1/2" CASING

Drill out intermediate casing cement with water discarding contaminated fluid into reserve pit. Mud up with low-solids, non-dispersed 6 PPB DAPP mud system. Keep trip speeds down to reduce surge/swab pressure. Keep hole full at all times. Monitor pit levels to detect loss circulation and gas kicks. Sweep hole as dictated by hole conditions and prior to running production casing. Keep drill string moving at all times. Have 100-200 PPM nitrates in mud system prior to drilling any potential pay zones that may be DST'd.

Recommended Fluid Properties: Weight

8.8 - 9.2 PPG

Viscosity

32-36 SEC / QT

Water Loss 6 - 8 CCS

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# **Evaluation Program**

MUDLOGGING: Drilling samples will be caught every 20' from 2000' to 10,000'. Mudloggers will be on location and rigged up before drilling out surface casing. 10' samples will be caught from 10,000' to T.D. or as directed by wellsite geologist.

OPENHOLE LOGGING: 6600 –2000' – CNL/FDC w/ XY caliper and DLL 10,700 –6600' – CNL/LDT w/ XY caliper and DLL

DRILLSTEM TESTING: None anticipated.

CORING: None anticipated.

STIMULATION: All prospective zones will be perforated, flow tested and evaluated to determined if acidizing and/or fracturing is required. The drill site will be of sufficient size to accommodate all completion operations.

The proposed Evaluation Program may change at the discretion of the well site drilling supervisor and geologist with the approval of the DOGM.

One copy of all logs, core descriptions, core analyses, DST test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during drilling, workover, and/or completion operations will be filed on form #8. Samples (cuttings, fluids, and/or gases) will be submitted when requested by DOGM.

# **Anticipated Bottomhole Pressure**

A bottomhole pressure of 3745 psi (.35 gradient) is anticipated at total depth (10,700')

ABNOMAL CONDITIONS:

No abnormal temperature or pressures are anticipated in the drilling of the Vernal Equinox 2-2.

# **Anticipated Starting Date and Miscellaneous**

1) ANTICIPATED STARTING DATE: Location

**Location Construction** 

August 15, 2007

Spud Date

September 1, 2007

Drilling Days
Completion Days

30 days 14 days

# 2) MISCELLANEOUS

There will be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices will be observed.

All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with *R649-3-5*. There will be a sign or marker with the name of the operator, lease serial number, well name and number and survey description of the well.

Any changes in operation must have prior approval from the DOGM. Pressure test will be performed before drilling out from under of all casing strings set and cemented in place. Blowout preventers controls will remain in use until the well is either completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and inspection will be recorded on the daily drilling report. All BOP test will be recorded on the daily drilling report.

The spud date will be orally reported to the DOGM twenty-four (24) hours after spudding. If spudding occurs on a weekend or holiday, this report will be called in on the next regular work day following spudding of the well.

In accordance with *R649-3-6*, this well will be reported on form #6, *Entity Action Form*, starting within five working days of spudding the well.

All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in *R649-3-32* will be reported to the DOGM Office. Major events will be reported verbally within twenty-four (24) hours and will be followed with a written report within five (5) days.

No well abandonment operations will be commenced without the prior approval of the DOGM. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the Division. A *Notice of Intention to Abandon* (Form #9) will be filed with the Division within five (5) days following the granting of oral approval to plug and abandon.

Upon completion of approved plugging, a regulation marker will be erected in accordance with *R649-3-25(7)*. The following information will be permanently placed on the marker with a plate, cap, or beaded-on with a welder: Company Name and Number, Location by Quarter/Quarter, Section, Township, Range and State Lease Number.

A Subsequent Report of Abandonment (Form #9) will be submitted within thirty (30) days following the actual plugging of the well bore. This report will indicate cement type and volumes, where plugs were placed, casing left in hole, statement of mud volumes used and the current status of surface restoration operations.

Page 9 Vernal Equinox 2-2 Drilling Prognosis

Pursuant to *R649-3-19*, operator will conduct a stabilized production test of at least 24 hours no later than fifteen (15) days following the completion of well. Lessees and operators are authorized to vent/flare gas during first calendar month after initial well evaluation tests and/or the production of three (3) MMCF of gas, whichever occurs first. An application must be filed with the DOGM, and approval received, for any venting /flaring of gas beyond the initial thirty (30) day or otherwise authorized test period.

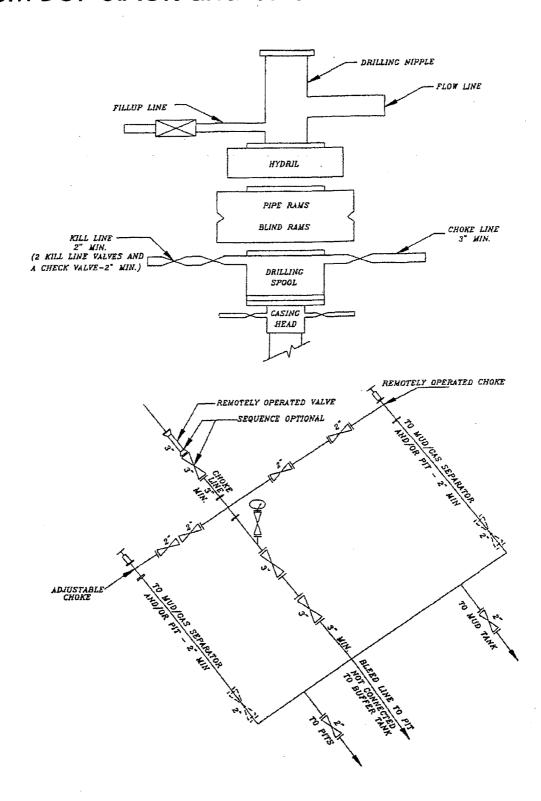
Pursuant to *R649-2-2*, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in such a manner as to conserve the natural resources of oil and gas in the state, to protect human health and the environment, to prevent waste, to protect the correlative rights of all owners and to realize the greatest ultimate recovery of oil and gas.

Date: <u>July 20, 2007</u>

Prepared by:

Eric Noblitt, Agent Royale Energy, Inc.

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

Bond No. 29	91395	DI	VISIC	ON OF OIL, GAS AND MINING	
Premium:	\$6,000.00				
				SURETY BOND	
KNOW ALL	MEN BY THESE P	RESENTS:			
That we (ope	erator name) ROY	ALE ENERGY	INC		as Principal
(surety name	a) AMERICAN C I to do business in the	ONTRACTOR	S INI	DEMNITY COMPANY  Id and firmly bound unto the State of Utah in the sum of:	Surety, duly authorized
	NDRED TWENT				.000.00
lawful mone; benefit of the	v of the United State	s. payable to the	Directo	or of the Division of Oil, Gas and Mining, as agent of the State of nich we bind ourselves, our heirs, executors, administrators and	of litch for the use one
repairing, op	erating, and plugging	a and abandonme	ent of a	AT, WHEREAS the Principal is or will be engaged in the drilling a well or wells and restoring the well site or sites in the State of Utilities in connection therewith for the following described land or	Itah for the nurnoses o
_	Blanket Bond:	To cover all	wells (	drilled in the State of Utah	
****	Individual Bond:	Well No:			
		Section:	<del></del>	Township: Range:	
		County:		, Utah	
and well site  IN TESTIMO  officers and i	or the Board of Oil, restoration, then this	Gas and Mining o s obligation is void I Principal has he	f the Si d; othe reunto	Il comply with all the provisions of the laws of the State of Utah ar State of Utah, including, but not limited to the proper plugging and erwise, the same shall be and remain in full force and effect.  subscribed its name and has caused this instrument to be signed.	l abandonment of wells
14+4	day of	June		20 <u><b>0 6</b></u>	
(Corporate o	or Notary Seal here)		]	ROYALE ENERGY INC	
(os,porato c	a isotaly coal fate,			Principal (company name)	
			Ву	Donald H. Hosmer, President	
				Name (print)	
Attestee:		Data		- Complet X. Xben	
		Date:	1	Signature	
IN TESTIMO to be affixed	NY WHEREOF, said this	l Surety has caus	ed this	s instrument to be signed by its duly authorized officers and its c	orporate or notary seal
8TH	_day of JUNE_			. 20_06	
				AMERICAN CONTRACTORS INDEMNITY COM	IPANY
			ı	Surety Company (Attach Power of Attorne	y)
(Corporate o	r Notary Seal here)		Ву	CARLA M ALLEN ATORNEY-IN-F. Name (print)	ACT
				Signature 1081 Camino Del Rio South, Suite 107	

Surety Mailing Address

CA

State

92108

Zip

San Diego

City

Attestee:

Date:

# STATE OF UTAH -- DIVISION COVATER RIGHTS -- DATA PRIN TUT for t31712(49-123)

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 03/23/2007 Page 1

CHANGE: t31712 WATER RIGHT: 49-123 CERT. NO.: AMENDATORY? No BASE WATER RIGHTS: 49-123 RIGHT EVIDENCED BY: 49-123(A8815) CHANGES: Point of Diversion  $[\ ]$ , Place of Use [X], Nature of Use [X], Reservoir Storage  $[\ ]$ . NAME: Burt and Christine DeLambert ADDR: P. O. Box 607 Vernal UT 84078 INTEREST: 100% REMARKS: FILED: 07/11/2006|PRIORITY: 07/11/2006|ADV BEGAN: ADV ENDED: | NEWSPAPER: No Adv Required ProtestEnd: | PROTESTED: [NO ] | HEARNG HLD: [SE ACTION: [Approved] | ActionDate: 07/17/2006 | PROOF DUE: |ELEC/PROOF:[ EXTENSION: ] | ELEC/PROOF: |CERT/WUC: RENOVATE: | LAP, ETC: 08/01/2007 | PROV LETTER: IRECON REQ: TYPE: [ 1 Status: Approved \*\*\*\*\*\*\*\*\*\*\* IFLOW: 0.9034 cfs ||FLOW: 20.0 acre-feet -11~-~---|SOURCE: A Spring Branch in Main Canyon || SOURCE: Unnamed Spring -||-----|COUNTY: Uintah -||-----Water will be pumped into trucks and Hhauled to place of use. - [ | -----(POINT(S) OF DIVERSION ----> I I SAME AS HERETOFORE ·--||-----|Point Surface: |(1) N 2870 ft E 16 ft from SW cor, Sec 32, T 15S, R 23E, SLBM|| | Dvrting Wks: Earth & Brush Dam 11 | Source: 11 PLACE OF USE ----> ||CHANGED as follows: --------NW4-- --NE4-- --SW4-- --SE4-- || --NW4-- --NE4-- --SW4-- --SE4-- | IN N S SIIN N S SIIN N S SIIN N S SIII IN N S SIIN N S SIIN N S SIIN N S SII IM E W EI IW E W EI IW E W EI IW E W E!!! Sec 30 T 15S R 23E SLBM IM E W E( IW E W E| IW E W E| IW E W E| I \* : : : \*\* : : : \*\* : : :X\*\* : : : \*|| ALL T 15S R 23E SLBM Sec 31 T 15S R 23E SLBM \* :X: :X\*\* : :X: \*\* : : : \*\* : : : \*!! ALL T 15S R 24E SLBM 11 ALL T 16S R 23E SLBM ALL T 16S R 24E SLBM NATURE OF USE ----> | | CHANGED as follows: SUPPLEMENTAL to Other Water Rights: No ||SUPPLEMENTAL to Other Water Rights: No 64.0400 acs Sol/Sup: acs USED 03/01 - 10/31|| | | OTH: OIL EXPLORATION: drilling and USED 08/01 - 07/31| completion of oil/gas wells in South Book Cliffs-8/1/06-7/3

# ROYALE ENERGY, INC. VERNAL EQUINOX #2-2 LOCATED IN GRAND COUNTY, UTAH

**SECTION 2, T16S, R21E, S.L.B.&M.** 



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE:WESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: EASTERLY** 



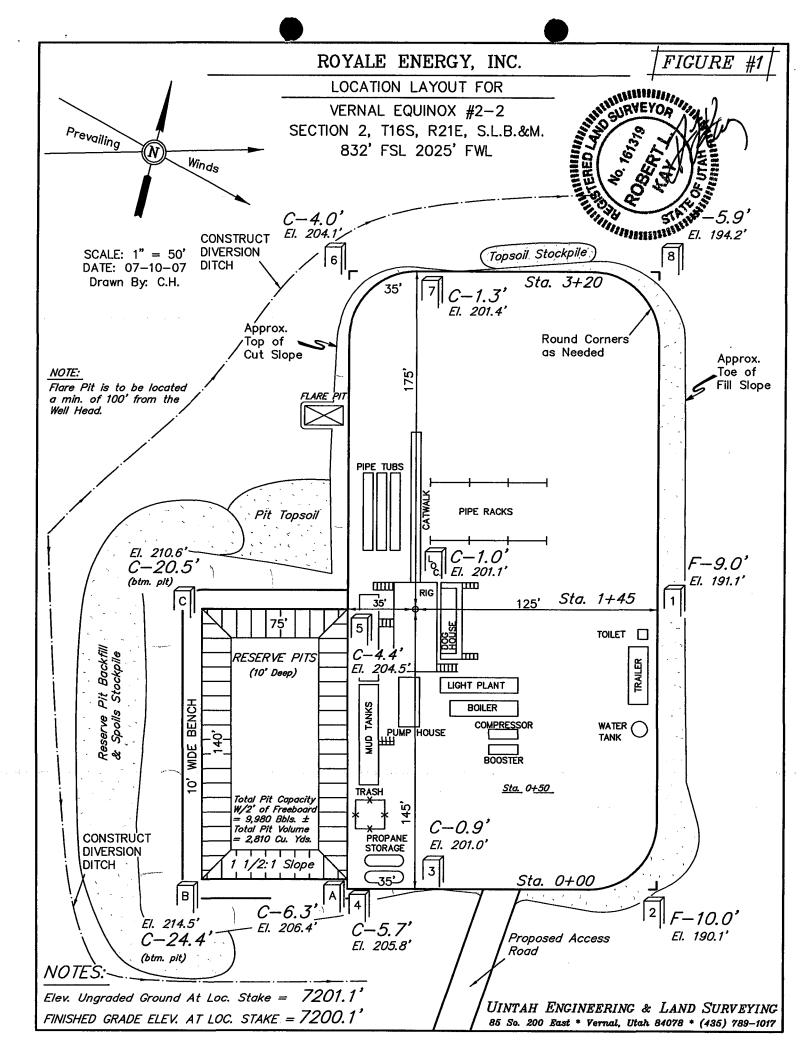
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

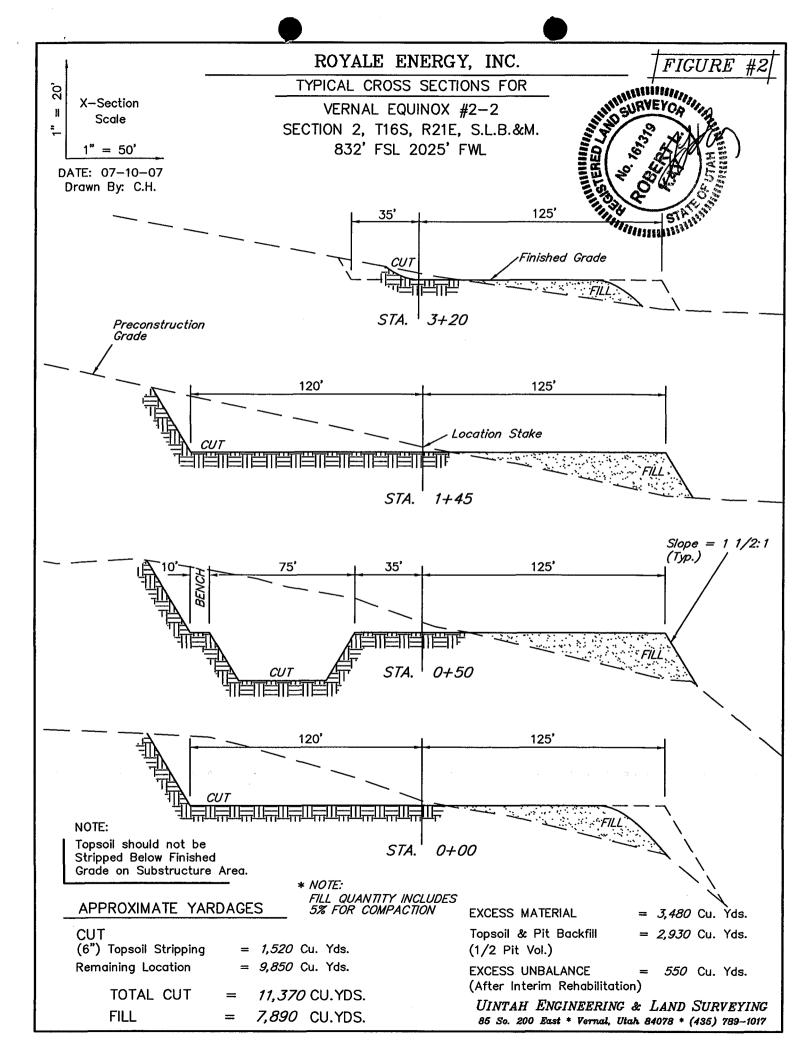
**LOCATION PHOTOS** 

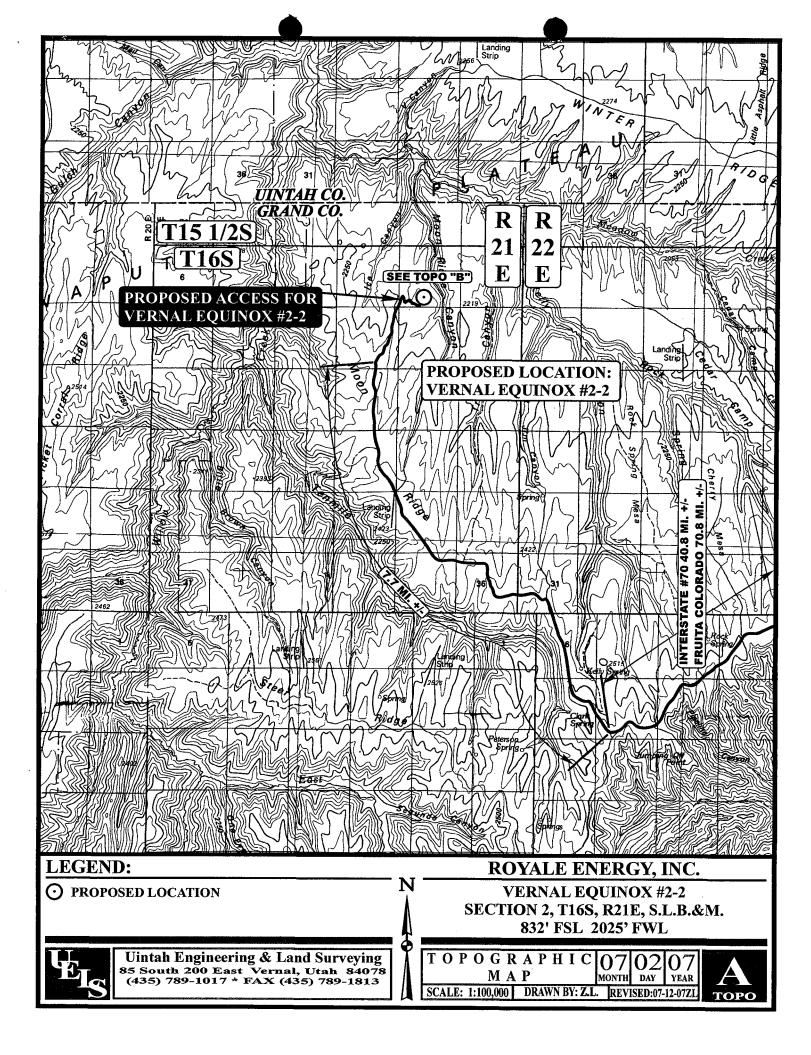
MONTH DAY

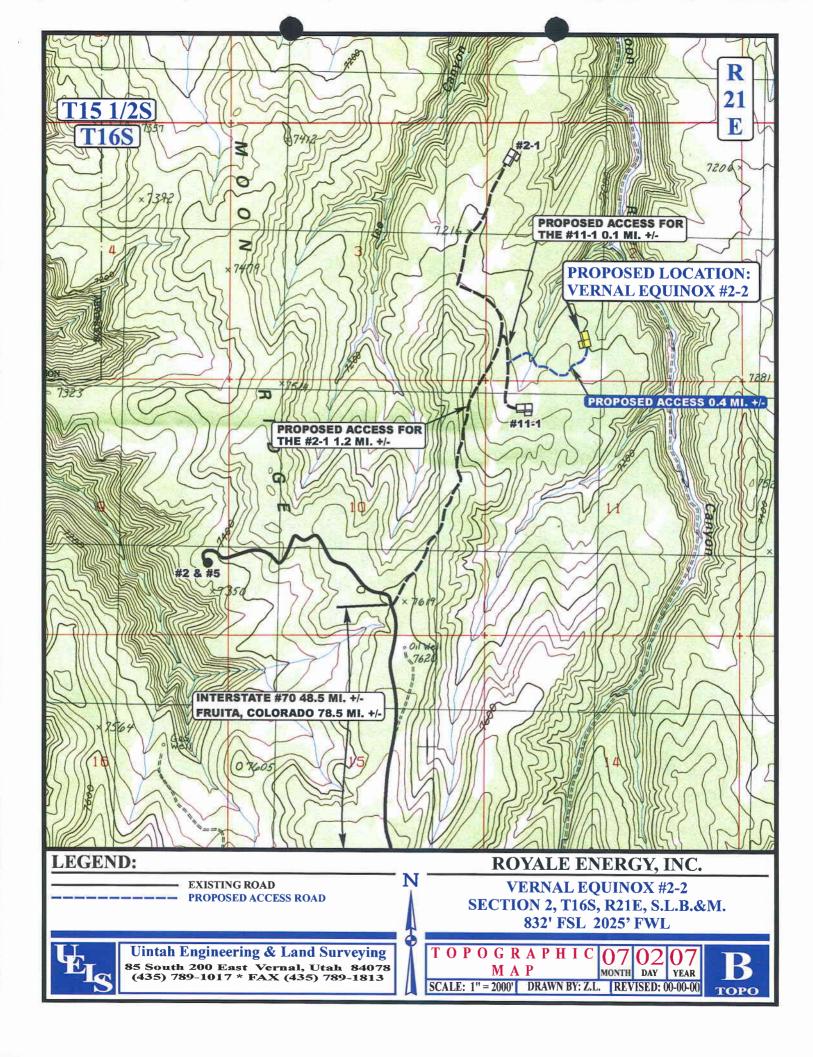
РНОТО

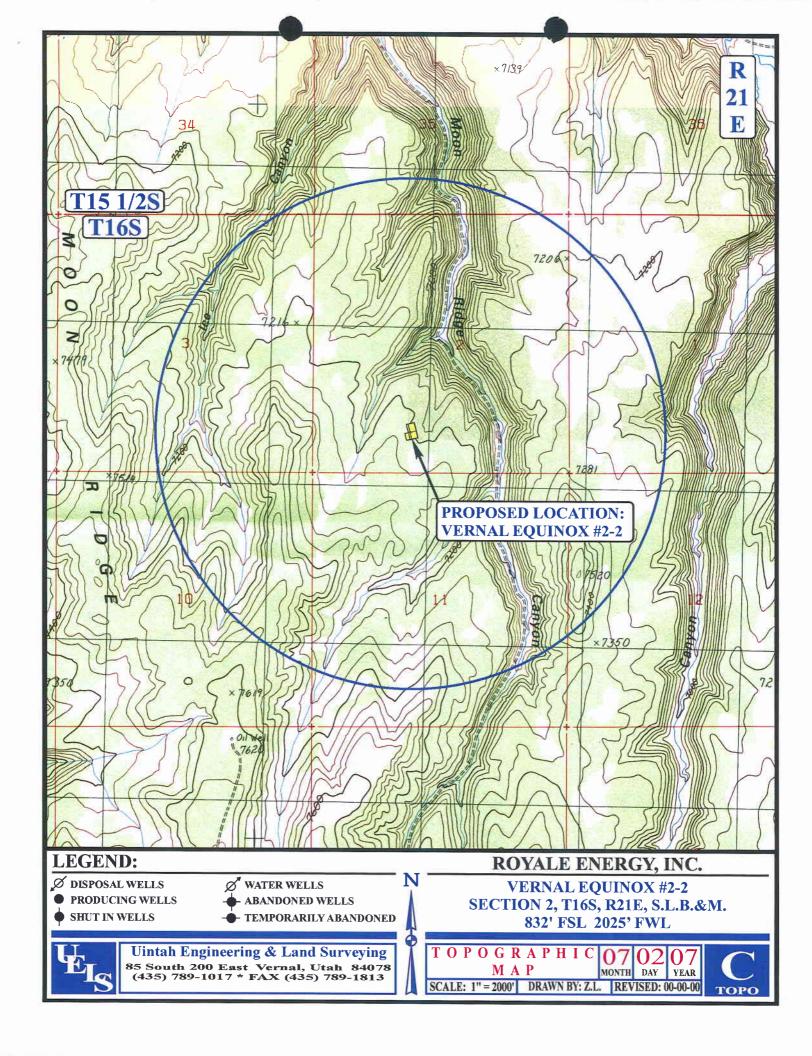
TAKEN BY: J.R. DRAWN BY: Z.L. REVISED: 00-00-00

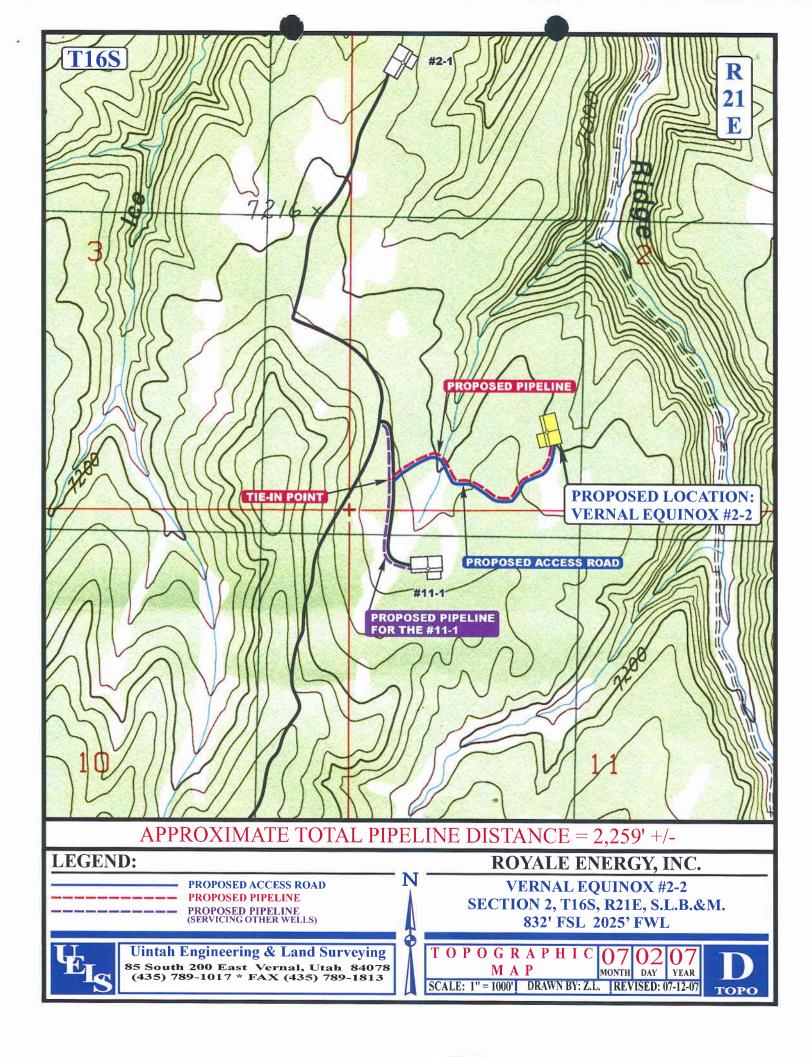




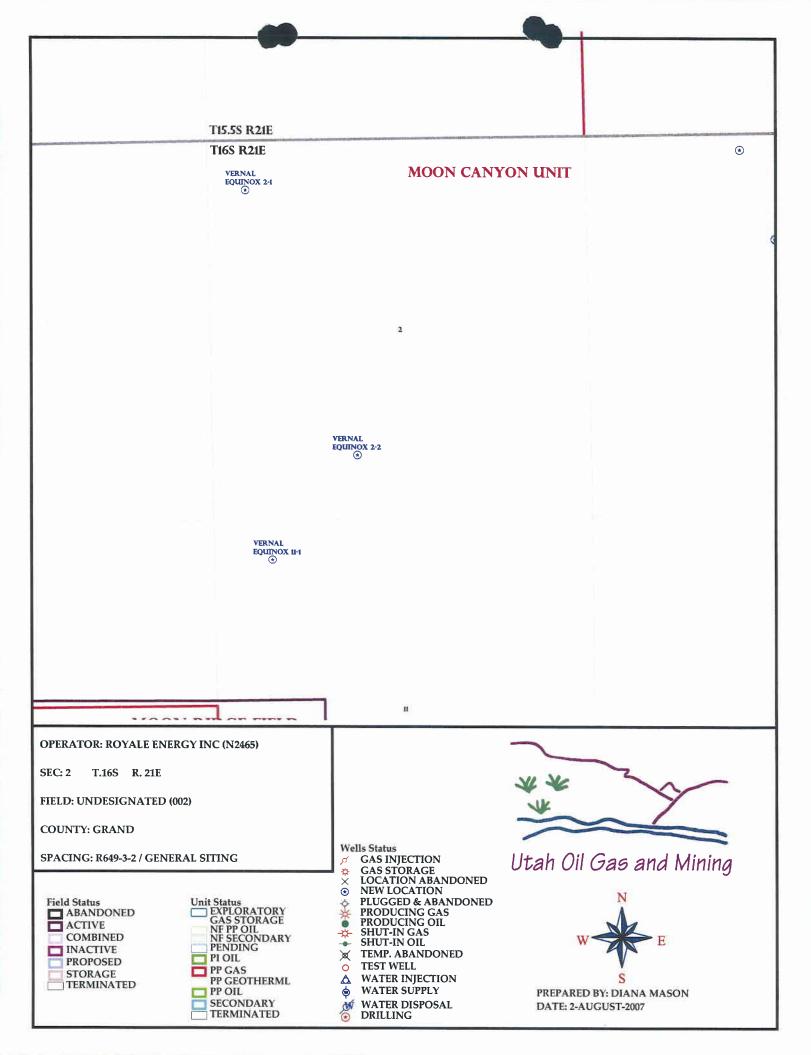


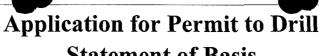






APD RECEIVED: 07/27/2007	API NO. ASSIGNED: 43-019-31552
WELL NAME: VERNAL EQUINOX 2-2  OPERATOR: ROYALE ENERGY, INC. ( N2465 )  CONTACT: ERIC NOBLITT	PHONE NUMBER: 619-881-2800
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
SESW 02 160S 210E SURFACE: 0832 FSL 2025 FWL	Tech Review Initials Date
BOTTOM: 0832 FSL 2025 FWL	Engineering QUD 8/31/07
COUNTY: GRAND	Geology
LATITUDE: 39.43980 LONGITUDE: -109.5720 UTM SURF EASTINGS: 622892 NORTHINGS: 43663	Surface
LEASE TYPE: 3 - State  LEASE NUMBER: ML-46110  SURFACE OWNER: 3 - State	PROPOSED FORMATION: MRSN COALBED METHANE WELL? NO
Plat  Bond: Fed[] Ind[] Sta[] Fee[]  (No. 291395 )  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. T30440 )  RDCC Review (Y/N)  (Date: )  Fee Surf Agreement (Y/N)  MA Intent to Commingle (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit: MOON CANYON  R649-3-2. General
STIPULATIONS:  1-Spacing 2-Starten	to (09-09-07) Stip ENT OF BACIS





# **Statement of Basis**

8/16/2007

# Utah Division of Oil, Gas and Mining

Page 1

APD No

**Operator** 

API WellNo

Status

Well Type GW

**Surf Ownr** S

**CBM** No

474

43-019-31552-00-00

**Surface Owner-APD** 

ROYALE ENERGY, INC. Well Name VERNAL EQUINOX 2-2

Unit

Field

UNDESIGNATED

Type of Work

Location

SESW 2 16S 21E S 832 FSL 2025 FWL

GPS Coord (UTM) 622892E 4366348N

# Geologic Statement of Basis

A well at this location will spud into the Tertiary age lower part of the Parachute Creek Member of the Green River Formation. A poorly to moderately permeable soil is developed on the Parachute Creek Member of the Green River Formation. The Parachute Creek Member is regarded as an aquifer in the Uinta Basin and is likely to contain a high quality ground water resource. In addition, the Wasatch Formation (Wasatch Aquifer) is closely subjacent. The base of moderately saline ground water is found at approximately 2,900', Total Depth (TD). The Operator proposes to set 9 5/8" surface casing at 2,000' TD and 7" intermediate casing at 6,600' TD. According to the proposed cementing program they will cement the surface casing up to the surface, including one-inching to surface if needed. It is recommended that the cement program for the intermediate casing include a requirement for cementing to 100' above the base of the surface casing (~1900"TD) in order to isolate the low quality water from the high quality water above. No underground water rights exist within a mile of the location.

Chris Kierst

8/16/2007

**APD** Evaluator

Date / Time

#### **Surface Statement of Basis**

On-site evaluation conducted August 9, 2007. Participants included:

Bart Kettle (Division of Oil, Gas and Mining), Ed Bonner (School and Institutional Trust Land Administration), Eric Noblitt (Agent for Royale), and Rod Weathermon (Halliburton). Inspecting proposed project site prior to schedualed on-site evaluation and providing coments: Ben Williams (Division of Wildlife Resources). Invited and unable to attend Glen Donaldson (Royale)

Due to resource damage resulting from drilling activities conducted during spring thaw on the Bookcliff divide in previous years, it is recommended that drilling be avoided during the months of February through April. DWR recommending that no drilling or construction activity occur November 15 to April 15. Reserve pit should be fenced on all four sides upon the removal of the drilling rig to prevent entrapment of wildlife. livestock and wild horses. Excess material accrued in the construction of the well pad may be used to increase the pad size up to fifteen feet on the northeast corner due to help accommodate larger rig then originally anticipated.

Bart Kettle

8/9/2007

**Onsite Evaluator** 

Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category

Condition

Pits

A synthetic liner with a minimum thickness of 12 mils shall be properly installed and

maintained in the reserve pit.

Pits

Fence reserve pit immediately upon removal of the drilling rig.



# Utah Division of Oil, Gas and Mining

Operator

ROYALE ENERGY, INC.

Well Name

**VERNAL EOUINOX 2-2** 

API Number

43-019-31552-0

**APD No 474** 

Field/Unit UNDESIGNATED

Location: 1/4.1/4 SESW

Sec 2

Tw 16S

Rng 21E

832 FSL 2025 FWL

GPS Coord (UTM)

**Surface Owner** 

#### **Participants**

Bart Kettle (DOGM), Ed Bonner (SITLA), Eric Noblitt (Agent for Royale), and Rod Weathermon (Halliburton). Invited but choosing not to attend Glen Donaldson (Royale). Inspecting the prosed site prior to schedualed on-site evaluation Ben Williams (DWR).

#### Regional/Local Setting & Topography

Project site is 60 miles northwest of Frutia Colorado in Grand County Utah. The project site is located near the Bookcliffs divide on the north side above Meadow Creek in a 14-16" precept zone. Pinyon/Juniper rangelands dominate the surroundings. Many deep rocky pinyon/juniper, Douglas fir and mountain browse canyons surround the well site. Topography to the south rises to the Bookcliff divide, and then drops off quickly into a narrow band of P/J woodlands, with extensive salt scrub clay flats in the Grand Valley below. Slopes are more gradual to the north, with extensive P/J woodland eventually giving way to the salt scrub communities bordering the White and Green Rivers. Project site is located towards the end of a long mesa over looking the Meadow Creek drainage. No perennial water was observed during the on-site inspection, however Meadow Creek, a perennial stream, is located within 1/2 mile of the well site. Drainages in the immediate area are ephemeral in nature. Perennial and intermittent springs are shown on 7.5 min maps near the bottom of adjacent canyons. Access to the well site can be gained via the Moon Ridge Road either from V Canyon or the Bookcliff Divide Roads.

#### Surface Use Plan

#### **Current Surface Use**

Grazing

Wildlfe Habitat

#### **New Road**

Miles Well Pad

Src Const Material

**Surface Formation** 

0.05

Width

Length

Onsite

GRRV

#### Ancillary Facilities Y

Man camp will be used to drill this well and four others proposed in the project area. Royale Energy, Inc has obtained a surface use agreement with SITLA to set up man camp 4 miles from proposed well site.

#### Waste Management Plan Adequate? Y

#### **Environmental Parameters**

Affected Floodplains and/or Wetland N

#### Flora / Fauna

Flora

Forbs: Spring parsley, spiny phlox

Grass: Sandburg's blue grass, needle and thread grass, bottle brush squirrel tail, western wheat grass, Indian rice

grass, Elk sedge, blue bunch wheat grass, thickspike wheat grass.

Shrubs: Birch leaf mountain mahogany, Wyoming sage Trees: Two needle pinyon, Utah juniper, Douglas fir.





Elk, mule deer, black bear, cougar, bobcat, cotton tail rabbits, black tail jack rabbit, pinyon jay, canyon wren, Clarks nutcracker, black capped chickadee, deer mouse. Potential for many species of rodents, song birds, raptors and reptiles.

#### Soil Type and Characteristics

Gray clay and shallow shale's, many sandstone fragments, some orange eolian deposition

#### Erosion Issues N

Fauna

Soils slightly erosive when disturbed, less then 2" of "A" horizon of much of proposed project area.

**Sedimentation Issues N** 

Site Stability Issues N

Drainage Diverson Required N

Berm Required? N

**Erosion Sedimentation Control Required?** N

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

#### **Reserve Pit**

Site-Specific Factors		Site 1	Ranking		
Distance to Groundwater (feet)	>200		0		
Distance to Surface Water (feet)	>1000		0		
Dist. Nearest Municipal Well (ft)	>5280		0		
Distance to Other Wells (feet)	>1320		0		
<b>Native Soil Type</b>	Mod permeability		10		
Fluid Type	Fresh Water		5		
<b>Drill Cuttings</b>	Normal Rock		0		
Annual Precipitation (inches)	10 to 20		5		
Affected Populations	<10		0		
<b>Presence Nearby Utility Conduits</b>	Not Present		0		
		Final Score	20	1	Sensitivity Level

# Characteristics / Requirements

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 12 Pit Underlayment Required? N

#### Other Observations / Comments

Division of Wildlife Resources (DWR) comments that the project area lies within High value mule deer summer range and critical elk summer range. DWR recommends that Royale move the access road out of the sage brush flat into P/J interface. School and Institutional Trust Lands Administration (SITLA) concerned about impacts of rig traffic on roads during wet season of the year. Recommending Royale avoid drilling during the months of Dec-April. Division of Oil, Gas and Mining concerned about impacts caused in the region when operators attempt to drill wells during the spring break up period occurring from Feb. early April. DOGM recommends that Royale be prepared to deal with powdery road conditions and dust problems during the months of May-July.

8/16/2007 Page 2

Bart Kettle
Evaluator

8/9/2007 **Date / Time** 

8/16/2007

Search

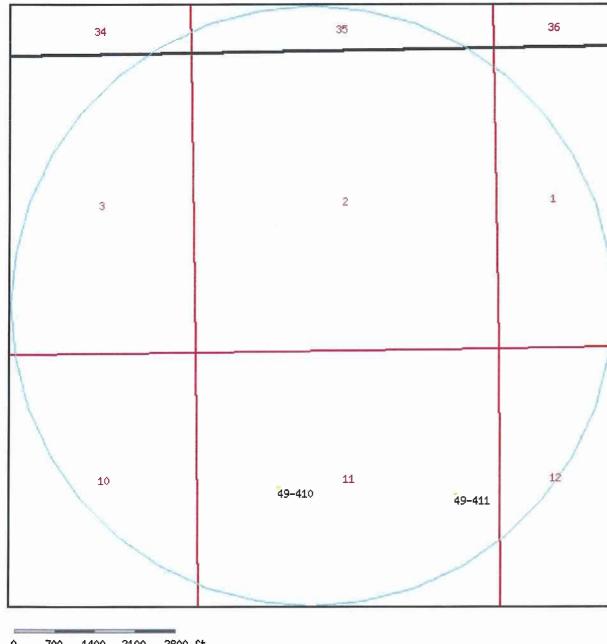
# **WRPLAT Program Output Listing**

Version: 2007.04.13.01

Rundate: 08/16/2007 04:12 PM

Radius search of 5280 feet from a point N832 E2025 from the SW corner, section 02, Township 16S, Range 21E, SL b&m Criteria:wrtypes=W,C,E podtypes=S,U,Sp status=U,A,P usetypes=all





0 700 1400 2100 2800 ft

# Water Rights





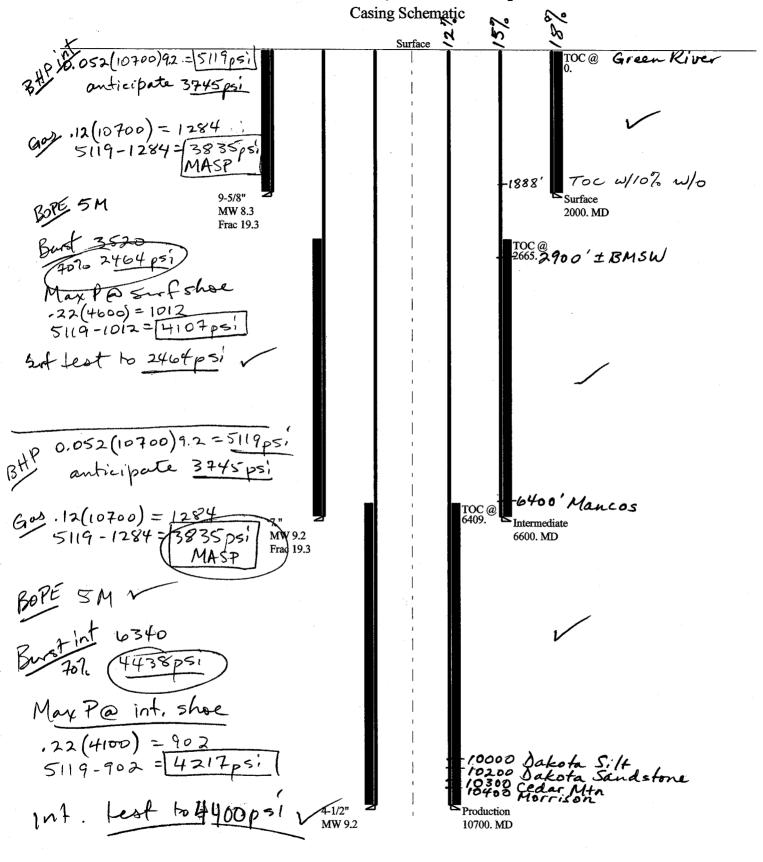
WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS ACFT	Owner Name
49-410	Surface		P	1861	os	0.015 0.000	USA BUREAU OF LAND MANAGEMENT
	N300 E1400 W4 11 16S 21E SL						170 SOUTH 500 EAST
<u>49-411</u>	Surface		P	1861	os	0.015 0.000	VERNAL DISTRICT USA BUREAU OF LAND MANAGEMENT
	N100 W800 E4 11 16S 21E SL						170 SOUTH 500 EAST

Natural Resources | Contact | Disclaimer | Privacy Policy | Accessibility Policy





# 2007-08 Royale Vernal Equinox 2-2



VAdequate DND 8/31/07

Well name:

2007-08 Royale Vernal Equinox 2-2

Operator:

Royale Energy Inc.

String type:

Surface

Project ID:

43-019-31552

Location:

**Grand County** 

**Design parameters:** 

Collapse

Mud weight:

8.300 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

1.125

**Environment:** 

H2S considered? Surface temperature: No 65 °F

Bottom hole temperature: Temperature gradient:

93 °F 1.40 °F/100ft

Minimum section length:

185 ft

**Burst:** 

Design factor

1.00

1.80 (J)

Cement top:

Surface

**Burst** 

Max anticipated surface

No backup mud specified.

pressure:

1,760 psi

Internal gradient: Calculated BHP

0.120 psi/ft

2,000 psi

8 Round STC:

**Buttress:** 

Premium:

Body yield:

**Tension:** 

8 Round LTC: 1.80 (J) 1.60 (J) 1.50 (J)

1.50 (B)

Tension is based on air weight. Neutral point: 1.754 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight:

6,600 ft 9.200 ppg 3,154 psi

Next setting BHP: Fracture mud wt: Fracture depth: Injection pressure:

19.250 ppg 2,000 ft 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	9.625	36.00	K-55	ST&C	2000	2000	8.765	868.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	862	2020	2.343	2000	3520	1.76	72	` 423´	5.88 J

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Minerals by:

Phone: 801-538-5357

Date: August 27,2007 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE** 

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.3 ppg The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Well name:

2007-08 Royale Vernal Equinox 2-2

Operator:

Royale Energy Inc.

String type:

Intermediate

Project ID:

43-019-31552

Location:

**Grand County** 

Design parameters:

**Collapse** 

Mud weight:

9.200 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse: Design factor

1.125

**Environment:** 

H2S considered? Surface temperature: No 65 °F

Bottom hole temperature: Temperature gradient:

157 °F

Minimum section length: 1.500 ft

1.40 °F/100ft

**Burst:** 

Design factor

1.00

Cement top:

2,665 ft

**Burst** 

Max anticipated surface

No backup mud specified.

pressure:

2,760 psi

Internal gradient: Calculated BHP

0.220 psi/ft 4,212 psi

Premium:

Body yield:

**Tension:** 8 Round STC:

1.80 (J) 8 Round LTC: 1.80 (J) **Buttress:** 1.60 (J)

1.50 (J) 1.50 (B)

Tension is based on air weight. Neutral point: 5,687 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

10,700 ft 9.200 ppg 5,114 psi

Fracture mud wt: Fracture depth: Injection pressure: 19.250 ppg 6.600 ft 6,600 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	6600	. 7	23.00	N-80	LT&C	6 <del>6</del> 00	6600	6.25	1458.8
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor
1	3154	3830	1 214	1212	6340	1 51	152	` 442	2 04 1

Prepared

by:

Helen Sadik-Macdonald Div of Oil, Gas & Minerals

Phone: 801-538-5357

Date: August 27,2007 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE** 

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 6600 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Well name:

2007-08 Royale Vernal Equinox 2-2

Operator:

Royale Energy Inc.

String type:

Location:

Production

Project ID:

**Grand County** 

43-019-31552

**Design parameters:** 

Collapse

Mud weight:

9.200 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:** 

H2S considered? Surface temperature: No 65 °F

Bottom hole temperature:

215 °F

Temperature gradient:

1.40 °F/100ft

Minimum section length:

368 ft

**Burst:** 

Design factor

1.00

1.80 (J)

1.80 (J)

1.60 (J)

Cement top:

6,409 ft

**Burst** 

Max anticipated surface

No backup mud specified.

pressure:

2,760 psi

Internal gradient: Calculated BHP

0.220 psi/ft

5,114 psi

**Tension:** 

8 Round STC:

8 Round LTC: **Buttress:** 

Premium:

1.50 (J) Body yield: 1.50 (B)

Tension is based on air weight. Neutral point:

Non-directional string.

9,228 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
. 1	10700	4.5	11.60	P-110	LT&C	10700	10700	3.875	933.8
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (Kips)	Strength (Kips)	Design Factor
1	5114	7580	1.482	5114	10690	2.09	124	279	2.25 J

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Minerals by:

Phone: 801-538-5357

Date: August 27,2007 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE** 

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 10700 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

#### Eric Noblitt

2275 Logos Court, Suite B-1 Grand Junction, CO. 81505

July 24, 2007

Ms. Diana Mason Division of Oil, Gas and Mining Box 14581 Salt Lake City, Utah 84114-5801

Re:

Application For Permit To Drill

Royale Energy, Inc.'s;

Vernal Equinox 2-2 Sec.2-T16S-R21E Grand County, Utah State Lease # ML-46110

#### Dear Diana:

Enclosed, please find in duplicate, an APD for Royale Energy's above described well. The Class III Cultural Resource Inventory report will be sent under separate cover from Grand River Institute to SITLA.

Please do not hesitate to contact me at (970) 245-3951 regarding any questions you may have regarding these applications.

Sincerely,

Eric Noblitt, Agent Royale Energy, Inc.

c.c. Glenn Donaldson - Royale Energy, Inc.

RECEIVED
JUL 2 7 2007

DIV. OF OIL, GAS & MINING

## United States Department of the Interior

#### BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

August 3, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Moon Canyon, Grand

County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2007 within the Moon Canyon Unit, Grand County, Utah.

API# WELL NAME LOCATION

(Proposed PZ Morrison)
43-019-31552 Vernal Equinox 2-2 Sec 02 T16S R21E 0832 FSL 2025 FWL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

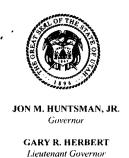
bcc: File - Moon Canyon Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:8-3-07

CONFIDENTIAL



# State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

**Division of Oil Gas and Mining** 

JOHN R. BAZA
Division Director

September 4, 2007

Royale Energy, Inc. 7676 Hazard Center Dr. San Diego, CA 92108

Re: Vernal Equinox 2-2 Well, 832' FSL, 2025' FWL, SE SW, Sec. 2, T. 16 South, R. 21 East,

Grand County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31552.

Sincerely,

Gil Hunt

Associate Director

sig The

pab Enclosures

cc: Grand County Assessor

Bureau of Land Management, Moab Office

SITLA



Operator:	Royale	Energy, Inc.	
Well Name & Number	Vernal	Equinox 2-2	
API Number:	43-019-	-31552	
Lease:	ML-46	110	
Location: SE SW	<b>Sec.</b> 2	T. 16 South	<b>R.</b> 21 East

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to spudding the well contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well contact Dustin Doucet
- Any changes to the approved drilling plan contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
Carol Daniels at: (801) 538-5284 office

• Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Page 2 43-019-31552 September 4, 2007

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

***	
AMENDED A	
(highlight changes)	

FORM 3

	A	PPLICA	TION FOR	PERMIT TO	DRILL	5. MINER	AL LEASE NO: 5110	6. SURFACE: State
1A. TYPE OF WO	RK: DR	RILL 🔽	REENTER [	DEEPEN		7. IF INDI	AN, ALLOTTEE OR	TRIBE NAME:
B. TYPE OF WELL: OIL GAS OTHER SINGLE ZONE MULTIPLE ZONE MOON CANON							IAME:	
والمراجع والم							NAME and NUMBER	
Royale Ene	ergy, INC					Verna	al Equinox 2-	2
3. ADDRESS OF	OPERATOR: rd Center Dr	or√ San	Diego ST	ATE CA ZIP 92	108 PHONE NUMBER: (619) 881-2800	10. FIELD	AND POOL, OR WI	LDCAT:
	WELL (FOOTAGES		517	ATE ZIP	(10.07.00.000		OTR, SECTION, TOV	VNSHIP, RANGE,
AT SUIDEACE	832' FSL &	2025' FW	/L			MERIC	-	·
			· <b>-</b>			SESV	V 2 165	3 21E
AT PROPOSED	PRODUCING ZON	E: Same						
14. DISTANCE IN	MILES AND DIREC	TION FROM N	EAREST TOWN OR PO	OST OFFICE:		12. COUN	ñγ:	13. STATE:
65 Northy	vest of Fruita	a, CO				Gran	d	UTAH
15. DISTANCE TO	NEAREST PROPE	RTY OR LEAS	E LINE (FEET)	16. NUMBER O	FACRES IN LEASE:	17. NUMBER OF	ACRES ASSIGNED	TO THIS WELL:
832 ft				]	640.8			40
	NEAREST WELL	DRILLING, CO	MPLETED, OR	19. PROPOSED		20. BOND DESC	RIPTION:	
APPLIED FOR	R) ON THIS LEASE	(FEET)			10,700	ļ	Bond #291	205
NA 21 ELEVATIONS	(SHOW WHETHER	DE DT GD E	TC )·	22 APPROVIM	ATE DATE WORK WILL START:	23. ESTIMATED		393
		OF, KI, GK, E	10.,.	9/1/2007		30 days	DURATION:	
7201 ft. G	.n			9/1/2007		30 days		·
24.			PROPOS	SED CASING A	ND CEMENTING PROGRAM			
SIZE OF HOLE	CASING SIZE, G	RADE, AND W	EIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QU	ANTITY, YIELD, AN	D SLURRY WEIGHT	
12-1/4"	9-5/8	K-55	36#	2,000	Class "G"	1200 sx	1.17	15.8 ppg
8-3/4"	7	N-80	23#	6,600	50/50 POZ	890 sx	1.26	14.2 ppg
6-1/4*	4-1/2	P-110	11.60#	10,700	50/50 POZ	533 sx	1.26	14.2 ppg
							5°-1 5	<del>, , , , ,</del>
<del></del>					<u></u>	<del></del>		
<del></del>	L	<del> </del>			<del></del>	<del></del>	-	
25.				ATTA	CHMENTS	,	L	
VERIFY THE FOL	LOWING ARE ATT	ACHED IN ACC	ORDANCE WITH THE	UTAH OIL AND GAS C	ONSERVATION GENERAL RULES:			
					1 —		ic. ro	الأسادة : 1
WELL PL	AT OR MAP PREPA	RED BY LICEN	SED SURVEYOR OR	ENGINEER	COMPLETE DRILLING PLAN		E.	
<b>Z</b> EVIDENO	E OF DIVISION OF	WATER RIGHT	'S APPROVAL FOR US	SE OF WATER	FORM 5, IF OPERATOR IS PE	ERSON OR COMP	OTHER THAN TH	IE LEASE OWNER
				·				
NAME (PLEASE)	PRINT) Eric No	blitt		·····	TITLE Agent			
SIGNATURE					DATE 7/20/2007			
(This space for Sta	te use only)							-00
,p (or one					Á	CCEPTE	BYBLM	-UH
						JIT DI IR	POSES OF	<b>NLY</b>
4 Di bu is 40-0	DICHED.			•				
API NUMBER AS	SIGNED:			<del></del>	APPROVAL:	OCT 2	2 2007	

(See Instructions on Reverse Side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	おしいに			FORM 9
DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS AND MINI	MGUNT	IDENIIAL		SE DESIGNATION AND SERIAL NUMBER: = 46110
SUNDRY NOTICES AND REPORTS	ON WEL	LS	6. IF IN	DIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below curren drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form	nt bottom-hole dept	th, reenter plugged wells, or to		or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL OTHER				L NAME and NUMBER: nal Equinox 2-2
2. NAME OF OPERATOR: Royale Energy, Inc				NUMBER: 31552
3. ADDRESS OF OPERATOR:		PHONE NUMBER:	10. FIE	LD AND POOL, OR WILDCAT:
7676 Hazard Center Dr. Sterchitz San Diego STATE CA ZIP 92	2108	(619) 881-2800	Wilc	lcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 832' FSL, 2025' FWL			COUNT	y: Grand
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 2 16 21			STATE:	UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE	NATURE	OF NOTICE, REPOR	RT, OI	R OTHER DATA
TYPE OF SUBMISSION		YPE OF ACTION		
ACIDIZE	DEEPEN			REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)  ALTER CASING	FRACTURE	TREAT		SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR	NEW CONS	TRUCTION		TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS	OPERATOR	CHANGE		TUBING REPAIR
CHANGE TUBING	PLUG AND	ABANDON		VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME	PLUG BACK	<		WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS	PRODUCTION	ON (START/RESUME)		WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS	RECLAMAT	ION OF WELL SITE		OTHER:
CONVERT WELL TYPE	RECOMPLE	TE - DIFFERENT FORMATION		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all per Royale Energy, Inc. requests a one year extension for its Ap				escribed well.
Approved by the Utah Division of Oil, Gas and Min Date:	of			

NAME (PLEASE PRINT) Glenn Donaldson Chief Engineer TITLE 9/8/2008 DATE SIGNATURE

(This space for State use only)

**COPY SENT TO OPERATOR** 

Initials:

(See Instructions on Reverse Side)

SEP 1 1 2008

DIV. OF OIL, GAS & MINING

#### Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

API:	43-019-31552	
Well Name:	Vernal Equinox 2-2	
Location:	SE SW, Sec. 2 T16 R21E Grand County	
	rmit Issued to: Royale Energy, Inc	
<b>Date Original</b>	Permit Issued: 9/4/2007	
above, hereby	ned as owner with legal rights to drill on the property as permitted verifies that the information as submitted in the previously lication to drill, remains valid and does not require revision.	
Following is a verified.	checklist of some items related to the application, which should be	<u> </u>
	rivate land, has the ownership changed, if so, has the surface en updated? Yes□No□	
Have any well the spacing or	s been drilled in the vicinity of the proposed well which would affer siting requirements for this location? Yes□No☑	ct
Has there bee	en any unit or other agreements put in place that could affect the operation of this proposed well? Yes□No☑	
Have there be of-way, which	een any changes to the access route including ownership, or right- could affect the proposed location? Yes□No ☑	
Has the appro	oved source of water for drilling changed? Yes□No☑	
Have there be which will requevaluation? Yes	een any physical changes to the surface location or access route uire a change in plans from what was discussed at the onsite es□No☑	
Les	Il in place, which covers this proposed well? Yes No□  9/8/2008  Date	
Signature  Title: Chief En		
Cinei Eli	ignico:	
Representing	Royale Energy, Inc	RECEIVED

SEP-1 1-2008

#### STATE OF UTAH

FORM 9

	DEPARTMENT OF NATURAL RESOURCES	
	DIVISION OF OIL, GAS AND MINING CONFIDENTIAL	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46110
SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill i drill horizontal l	new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to aterais. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME:  Moon Canyon
1. TYPE OF WELL OIL WELL	GAS WELL OTHER	8. WELL NAME and NUMBER: Vernal Equinox 2-2
2. NAME OF OPERATOR: Royale Energy, Inc		9. API NUMBER: 4301931552
3. ADDRESS OF OPERATOR: 7676 Hazard Center Dr. Ste	Y San Diego STATE CA ZIP 92108 PHONE NUMBER: (619) 881-2800	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 832' F	SL, 2025' FWL	COUNTY: Grand
QTR/QTR, SECTION, TOWNSHIP, RAN	ge, meridian: SESW 2 16 21	STATE: UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
NOTICE OF INTENT (Submit in Duplicate)	ACIDIZE DEEPEN  ALTER CASING FRACTURE TREAT	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
	COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
	CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR CO	MPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	s, etc.
Royale Energy, Inc. reque	sts a one year extension for its Application for Permit to Drill of abo	ove described well.
	Approved by the	
	Approved by the Utah Division of	
	Oil, Gas and Mining	
	-2 00	
	Date: 1150 STOTE	OPY SENT TO OPERATOR
	2 (1) 1.4 (1)	· <del>-</del>
	By:	ate: 1116, 2009
	M) In	itials: KS

(This space for State use only)

NAME (PLEASE PRINT)

Mohamed Abdel-Rahman

RECEIVED OCT 0 1 2009

VP of Exploration & Production

DATE 9/28/2009

#### Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

Well Name: Vernal Equinox 2-2 Location: SE SW, Sec. 2 T16S R21E Grand County Company Permit Issued to: Royale Energy, Inc Date Original Permit Issued: 9/4/2007	
The undersigned as owner with legal rights to drill on above, hereby verifies that the information as submitt approved application to drill, remains valid and does in	ed in the previously
Following is a checklist of some items related to the a verified.	pplication, which should be
If located on private land, has the ownership changed agreement been updated? Yes □ No □	l, if so, has the surface
Have any wells been drilled in the vicinity of the proporthe spacing or siting requirements for this location? Ye	osed well which would affect es⊟No⊠
Has there been any unit or other agreements put in pl permitting or operation of this proposed well? Yes□N	
Have there been any changes to the access route incof-way, which could affect the proposed location? Yes	
Has the approved source of water for drilling changed	? Yes□No☑
Have there been any physical changes to the surface which will require a change in plans from what was disevaluation? Yes□No☑	location or access route scussed at the onsite
Is bonding still in place, which covers this proposed we	ell? Yes⊠No□
Land Abolille	9/28/2009
Signature	Date
Title: VP of Exploration & Production	
Representing: Royale Energy, Inc	RECEIVED
	OCT 0 1 2009

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-46110
SUND	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	sals to drill new wells, significantly deepen ugged wells, or to drill horizontal laterals. U		7.UNIT or CA AGREEMENT NAME: MOON CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: VERNAL EQUINOX 2-2
2. NAME OF OPERATOR: ROYALE ENERGY, INC.			<b>9. API NUMBER:</b> 43019315520000
3. ADDRESS OF OPERATOR: 7676 Hazard Center Dr Ste 15		NE NUMBER: 619 881-2800 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0832 FSL 2025 FWL	TO DANCE MEDITANA		COUNTY: GRAND
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SESW Section: 02	Township: 16.0S Range: 21.0E Meridian:	S	STATE: UTAH
CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE	☐ ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
9/1/2011	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
SUBSEQUENT REPORT	☐ DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
_	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL
☐ DRILLING REPORT	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:
Royale Energy, Inc re	DMPLETED OPERATIONS. Clearly show all per equests a one year extension f above descrived well.	or its Application to Drill o	
NAME (PLEASE PRINT) Rachele Wolchko	<b>PHONE NUMBER</b> 619 881-2874	TITLE Executive Assistant	
SIGNATURE N/A		<b>DATE</b> 8/18/2010	



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43019315520000

**API:** 43019315520000 **Well Name:** VERNAL EQUINOX 2-2

Location: 0832 FSL 2025 FWL QTR SESW SEC 02 TWNP 160S RNG 210E MER S

Company Permit Issued to: ROYALE ENERGY, INC.

**Date Original Permit Issued:** 9/4/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

require revi	sion. Following is a o	hecklist of so	me items rela	ted to the a	pplicati	on, which should be verified.
	ated on private land, ed? 🔵 Yes 📵 No		ership changed	l, if so, has	the sur	face agreement been
	any wells been drille requirements for th				hich we	ould affect the spacing or
	nere been any unit o s proposed well?			lace that co	uld affe	ect the permitting or operation
	there been any chan the proposed location			uding owne	rship, o	or rightof- way, which could
• Has th	ne approved source	of water for d	rilling changed	l? 🔵 Yes	No	<b>.</b>
	there been any phys je in plans from wha					route which will require a Yes 📵 No
• Is bor	nding still in place, w	hich covers t	his proposed v	vell? 📵 Y	es 🔵	REQUEST DENIED  No Utah Division of Oil, Gas and Mining
Signature:	Rachele Wolchko	Date:	8/18/2010			
Title:	Executive Assistant R	epresenting:	ROYALE ENERG	Y, INC.	Da	te: August 19, 2010
					В	<i>r</i> :





MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

Division Director

September 13, 2010

Royale Energy, Inc. 7676 Hazard Center Dr. San Diego CA 92108

Re: APD Rescinded - Vernal Equinox 2-2, Sec. 2 T. 16S, R. 21E

Grand County, Utah API No. 43-019-31552

#### Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on September 4, 2007. On September 16, 2008 and November 3, 2009, the Division granted a oneyear APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective September 13, 2010.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

**Environmental Scientist** 

cc: Well File

SITLA, Ed Bonner



## United States Department of the Interior



#### **BUREAU OF LAND MANAGEMENT**

Green River District-Vernal Field Office 170 South 500 East Vernal, UT 84078 (435) 781-4400 Fax: (435) 781-4410 http://www.blm.gov/ut/st/en/fo/vernal.html



SEP 2 0 2011

IN REPLY REFER TO: 3160 (UTG011)

Rachele Wolchko Royale Energy, Inc. 7676 Hazard Center Drive, Suite 1500 San Diego, CA 92108

Re:

Notice of State Lease APD Rescinded

Well No. Vernal Equinox 2-2 SESW, Sec. 2, T16S, R21E Grand County, Utah Lease No. ML-46110

Moon Canyon Unit

Dear Ms. Wolchko:

The Bureau of Land Management (BLM) Vernal Field Office accepted the State of Utah Application for Permit to Drill (APD) for the above referenced well for unit purposes on October 22, 2007. This office received a copy of the APD Rescinded letter from the Utah Division of Oil Gas and Mining rescinding their approval to drill the referenced well effective September 13. 2010. In view of the foregoing, this office is rescinding its acceptance/approval of the referenced APD.

If you have any questions regarding this matter, please contact Cindy Severson at (435) 781-4455.

Sincerely,

RECEIVED

DCT 07 2011

Jérry Kenczka Assistant Field Manager

Lands & Mineral Resources

DIV. OF OIL, GAS & MINING

CC:

UDOGM,

API No.43-019-31552